

Abstract of the Disclosure

Disclosed are a gain module and an optical communication system which have gain in a broad wavelength range and are of low cost. The gain module 10 has two optical fibers 11_1 and 11_2 which differ from each other with respect to the composition of their respective optical waveguide region and which are connected in series. Because they differ from each other with respect to the quantity of their respective Stokes shift, they have gain in a different wavelength, respectively. The signal lights are introduced into the input end 10a, amplified with the gain module 10 in a wide wavelength range where an optical fiber has a Raman amplification gain, and are emitted from the output end 10_b.

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